

**From:** [Neustifter - CDPHE, Jeremy](#)  
**To:** [Morales, Monica](#)  
**Cc:** [Daly, Carl](#); [Fiedler, Kerri](#); [Olson, Kyle](#); [Garrison Kaufman - CDPHE](#); [Gordon Pierce](#)  
**Subject:** Re: Testing Protocols  
**Date:** Wednesday, November 14, 2018 8:36:23 AM  
**Attachments:** [Protocol 043AS-484549-PP-123R1.pdf](#)

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Hi Monica,

Please see the attached protocol. Keep in mind that this testing was conducted on a voluntary basis (i.e. without utilizing C.R.S. 25-7-111 authority), but APCD provided input throughout the process. Terumo wanted to quantify total emissions from both the adsorber and acid scrubber emission points, so you'll see they tested both points for seven continuous days using Method 320. Stack gas velocity was also tested on a continuous basis to capture flow variability. To reiterate what we discussed yesterday, there were no operational changes with respect to the acid scrubber, and the rear chamber vents are now tied into the aeration room adsorber system. Therefore, all point sources of EtO are now controlled by a scrubber or dry adsorber.

Please let me know if you have any questions or concerns.

Jeremy

On Wed, Nov 14, 2018 at 7:47 AM Morales, Monica <[Morales.Monica@epa.gov](mailto:Morales.Monica@epa.gov)> wrote:

Hi Jeremy – As a followup, please send us the stack testing protocols. Thanks.

Monica S. Morales

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